

Title (en)  
HEIGHT AND ROLL CONTROL DEVICE FOR A VEHICLE

Publication  
**EP 0233522 B1 19900516 (DE)**

Application  
**EP 87101254 A 19870129**

Priority  
• DE 3604068 A 19860208  
• DE 3639995 A 19861122

Abstract (en)  
[origin: US4815751A] A level and inclination regulating arrangement for a vehicle includes a compressor having an inlet chamber and an outlet chamber. At least two pneumatic or hydropneumatic resilient elements are each associated with one wheel of an axle of the vehicle and include a movable separating piston which is acted upon at one side by the wheel load, and a housing confining a gas cushion which exerts pneumatic pressure on and supports the separating piston at the other side. Supply and discharge conduits connect each of the gas cushions with the outlet chamber and with the inlet chamber of the compressor, respectively. An accumulator is incorporated into at least one of the supply and discharge conduits which communicates with the respective one of the outlet and inlet chambers. Position regulating elements are respectively associated with the resilient elements and are operative for detecting the position of the separating piston with respect to a desired position and for controlling the discharge of gas from the respective gas cushion into the discharge conduit and the supply of gas from the supply conduit into the respective gas cushion in dependence on the deviation of the respective separating piston from its desired position. A control valve selectively connects the accumulator with and disconnects the same from the connection through the respective one of the supply and discharge conduits.

IPC 1-7  
**B60G 17/04**

IPC 8 full level  
**B60G 17/033** (2006.01); **B60G 17/04** (2006.01); **B60G 21/10** (2006.01)

CPC (source: EP US)  
**B60G 17/033** (2013.01 - EP US); **B60G 17/04** (2013.01 - EP US); **B60G 21/106** (2013.01 - EP US); **B60G 2204/80** (2013.01 - EP US); **B60G 2500/203** (2013.01 - EP US); **B60G 2500/206** (2013.01 - EP US); **Y10S 280/01** (2013.01 - EP US)

Cited by  
EP0317086A1; US11346422B2; US10316924B2; US9746049B2; US10359092B2; US11085503B2

Designated contracting state (EPC)  
CH FR GB IT LI

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